Lede Xian

List of Publications by Year
in descending order

27 papers	3,150 citations	361413 20 h-index	526287 27 g-index
28 all docs	28 docs citations	28 times ranked	4071 citing authors

#	Article	IF	Citations
1	Maximized electron interactions at the magic angle in twisted bilayer graphene. Nature, 2019, 572, 95-100.	27.8	644
2	Correlated electronic phases in twisted bilayer transition metal dichalcogenides. Nature Materials, 2020, 19, 861-866.	27.5	544
3	MoirÃ© heterostructures as a condensed-matter quantum simulator. Nature Physics, 2021, 17, 155-163.	16.7	317
4	Instantaneous Band Gap Collapse in Photoexcited Monoclinic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>VO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> to Photocarrier Doping. Physical Review Letters, 2014, 113, 216401.	7.8	203
5	Large area planar stanene epitaxially grown on Ag(1â€‰1â€‰1). 2D Materials, 2018, 5, 025002.	4.4	164
6	Stable two-dimensional dumbbell stanene: A quantum spin Hall insulator. Physical Review B, 2014, 90, .	3.2	154
7	Square selenene and tellurene: novel group VI elemental 2D materials with nontrivial topological properties. 2D Materials, 2017, 4, 041003.	4.4	139
8	Multiflat Bands and Strong Correlations in Twisted Bilayer Boron Nitride: Doping-Induced Correlated Insulator and Superconductor. Nano Letters, 2019, 19, 4934-4940.	9.1	123
9	Atomic structure of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msqrt><mml:mn>3</mml:mn></mml:msqrt><mml:mspace width="0.16em" /><mml:mo>Ã—</mml:mo><mml:mspace width="0.16em" /><mml:msqrt><mml:mn>3</mml:mn></mml:msqrt></mml:mrow></mml:math>phase of silicene on Ag(111). Physical Review B, 2014, 90, .	3.2	107
10	One-dimensional flat bands in twisted bilayer germanium selenide. Nature Communications, 2020, 11, 1124.	12.8	80
11	Ultrasensitive H2S gas sensors based on p-type WS2 hybrid materials. Nano Research, 2018, 11, 4215-4224.	10.4	76
12	Enhanced tunable second harmonic generation from twistable interfaces and vertical superlattices in boron nitride homostructures. Science Advances, 2021, 7, .	10.3	73
13	MoirÃ© metrology of energy landscapes in van der Waals heterostructures. Nature Communications, 2021, 12, 242.	12.8	60
14	MoirÃ©less correlations in ABCA graphene. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	59
15	Realization of nearly dispersionless bands with strong orbital anisotropy from destructive interference in twisted bilayer MoS2. Nature Communications, 2021, 12, 5644.	12.8	57
16	Higher-Order Band Topology in Twisted MoirÃ© Superlattice. Physical Review Letters, 2021, 126, 066401.	7.8	56
17	Topological Floquet engineering of twisted bilayer graphene. Physical Review Research, 2019, 1, .	3.6	56
18	Charge-Transfer Plasmon Polaritons at Graphene/Î±-RuCl₃ Interfaces. Nano Letters, 2020, 20, 8438-8445.	9.1	53

#	Article	IF	Citations
19	Universal slow plasmons and giant field enhancement in atomically thin quasi-two-dimensional metals. Nature Communications, 2020, 11, 1013.	12.8	53
20	MoirÃ© nematic phase in twisted double bilayer graphene. Nature Physics, 2022, 18, 196-202.	16.7	51
21	Diffusion of Si and C atoms on and between graphene layers. Journal Physics D: Applied Physics, 2012, 45, 455309.	2.8	20
22	Coupled Dirac Fermions and Neutrino-like Oscillations in Twisted Bilayer Graphene. Nano Letters, 2013, 13, 5159-5164.	9.1	18
23	Engineering Three-Dimensional MoirÃ© Flat Bands. Nano Letters, 2021, 21, 7519-7526.	9.1	10
24	MoirÃ© flat bands in twisted 2D hexagonal vdW materials. 2D Materials, 2022, 9, 014005.	4.4	10
25	MoirÃ© engineering of spinâ€“orbit coupling in twisted platinum diselenide. Electronic Structure, 2022, 4, 014004.	2.8	8
26	Ab initio Modelling of Plasmons in Metalâ€semiconductor Bilayer Transitionâ€metal Dichalcogenide Heterostructures. Israel Journal of Chemistry, 2017, 57, 540-546.	2.3	4
27	Tunable multi-bands in twisted double bilayer graphene. 2D Materials, 2022, 9, 034001.	4.4	2